

<210> 39
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<220>
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<400> 41

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33

<210> 42

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<400> 42

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<210> 43

<211> 345

<212> DNA

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<221> Variable region of humanized heavy chain DP7-JH4

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cctggacaag ggcttgagtg gatgggaata atcaacccta gtggtggtag cacaagctac 180
gcacagaagt tccagggcag agtcacatg accagggaca cgtccacgag cacagtctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagannnnnn 300
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<400> 44

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Xaa Xaa Xaa Xaa Xaa Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
115

<210> 45

<211> 336

<212> DNA

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<220>

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tacctgcaga agccaggcca gcctccacag ctctgatct atgaagttc caaccggttc 180
tctggagtgc cagatagggt cagtggcagc gggtcaggga cagattcac actgaaaatc 240

agccgggtgg aggctgagga tgttgggggt tattactgca tgcaaagtat acagcttcct 300
ccnacgttcg gtggaggcac caagtgga atcaaa 336

<210> 46

<211> 112

<212> DNA

<213> Artificial Sequence

<220>

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<400> 46

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Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His Ser
20 25 30
Asp Gly Lys Thr Tyr Leu Tyr Trp Tyr Leu Gln Lys Pro Gly Gln Pro
35 40 45
Pro Gln Leu Leu Ile Tyr Glu Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ser
85 90 95
Ile Gln Leu Pro Xaa Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110